

SYMBOLS & ABBREVIATIONS

SYMBOL:

Exposed reinf. bars
where occurs

- 
 — S.S. = Surface Spall (Concrete)

 — C.S. = Corner Spall (Concrete)

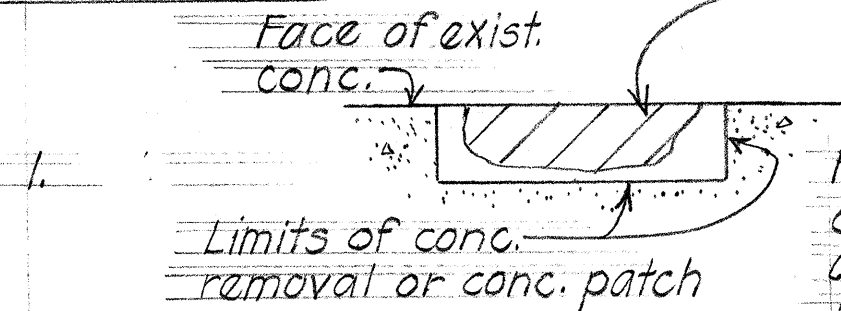
 — S.C. = Surface Crack (Concrete)

 — H.C. = Hairline Crack (Concrete)

 — P.C. = Pattern Cracks (Concrete) (Surface or Hairline)
 L.F.; L.F. = Linear Feet
 M.P. = Mile Point
 N.F. = Near Face
 F.F. = Far Face

GENERAL NOTES

REPAIR NOTES:



Hatched area denotes approx. damaged or deteriorated area. Apply bonding agent immediately before placing mortar or concrete.

1. Remove sections of spalled, deteriorated or cracked areas to sound concrete. All dimensions are minimum dimensions. Exact locations & limits of concrete repair to be determined in the field by the Engineer.
2. Note "A" - Where exposed reinforcing bars occur, provide minimum 2" conc. cover at each bar. See specifications for welded wire fabric requirements.
3. Concrete areas of patterned cracks (Surface or Hairline), or large number of relatively narrow crevices shall be repaired as designated for surface spalls. See Note 1.
4. Repairs to hairline cracks, see Specifications.
5. Reinforcing bars or rails of concrete members that have rusted more than 25% of their original cross sectional area shall be strengthened as shown on Repair Splice Details, Sht. T-3.
6. Item concrete surface repair: Roughen surface & apply bonding compound & mortar - see Specifications.

INCIDENTAL ITEMS: The following items shall be considered incidental to the various pay items of repairs & shall not be paid for separately.

1. Removal of trees or other vegetation growing on the bridge, except as otherwise noted.
2. Expansion bolts & other miscellaneous hardware, including galvanizing of such hardware.
3. Reinforcing bars of repair splice for strengthening corroded bars or rails.
4. Cleaning of all exposed, corroded reinforcing steel or rails to sound metal.
5. Structural excavation & backfill at concrete, CRM or GRP.

GENERAL:

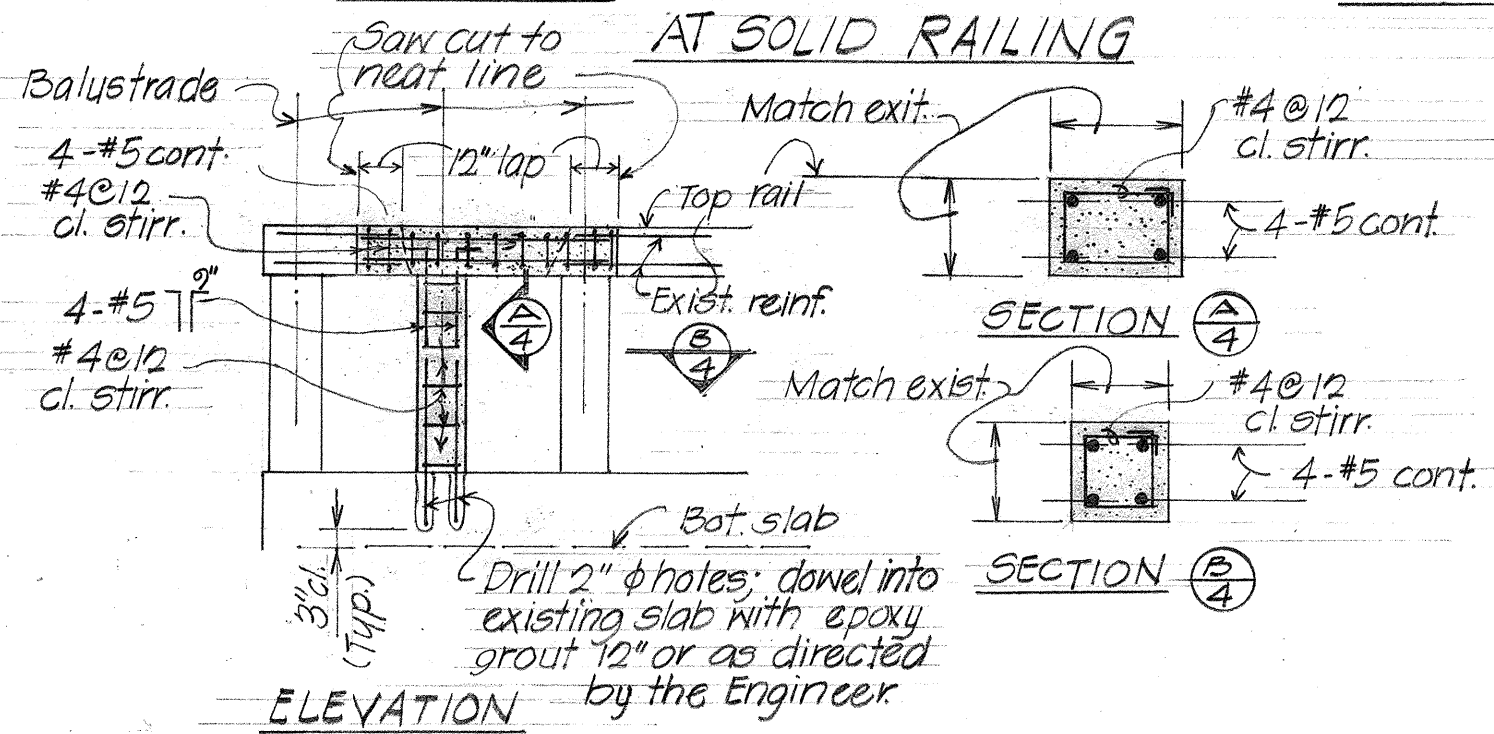
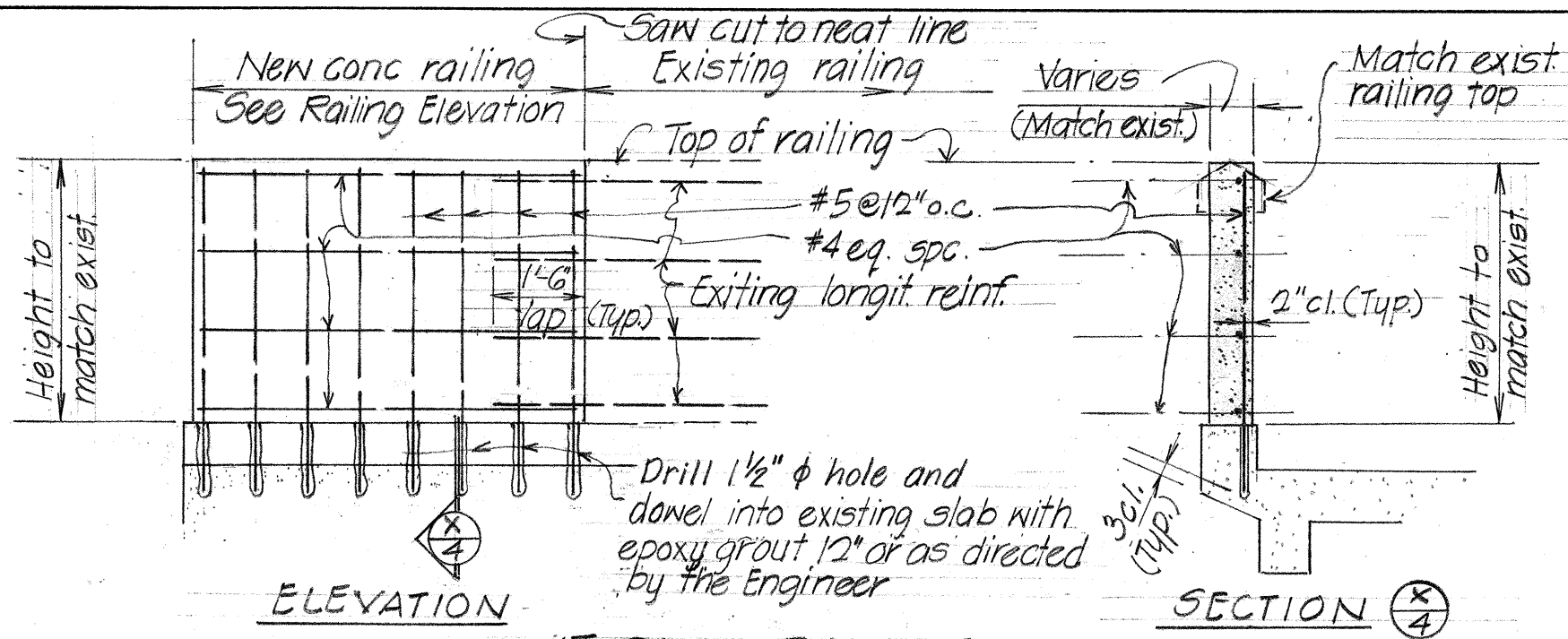
1. All concrete to be Class A, except as otherwise noted.
2. Lightweight concrete: $f'c = 3000$ psi @ 28 days
Unit weight = 120 #/ft^3 . Submit mix design to the Engineer for approval.
3. All reinforcing steel Grade 40.
4. All items noted incidental will not be paid for separately.

FED. ROAD DIST. NO.	STATE	FED-AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	HWY M-01-74	1974	3	50

STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION
REHABILITATION & REPAIRS TO BRIDGE TYPICAL DETAILS
PROJ. NO. HWY. M-01-74 NOV. 1973
SHEET No. T2 OF 4 SHEETS

DESIGNED BY	DATE
CHECKED BY	
IN CHARGE	
APPROVED BY	
ORIGINAL PLAN	
REVISIONS	
DATE	
BY	
REVISIONS	
DATE	
BY	

FED. ROAD DIST. NO.	STATE	FED.-AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	HWY. M-01-74	1974	5	50



AT OPEN RAILING

TYPICAL CONC. RAILING DETAIL No Scale

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

REHABILITATION & REPAIRS
TO BRIDGE
TYPICAL DETAILS
PROJ. N° HWY. M-01-74 NOV. 1973

SHEET No. 74 OF 4 SHEETS